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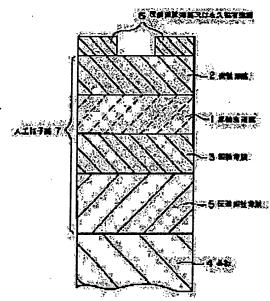
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## (54) MAGNETO-RESISTIVE FILM, ITS PRODUCTION AND MAGNETORESISTANCE **EFFECT ELEMENT**

(57) Abstract:

PROBLEM TO BE SOLVED: To form a magneto-resistive film linearly varying the resistance before and behind a zero magnetic field and excellent in corrosion resistance. SOLUTION: This magnetoresistive film consists of plural magnetic thin films 2, 3 laminated on a substrate 4 while interposing a nonmagnetic thin film 1 between the films 2, 3. An antiferromagnetic thin film 5 is previously disposed under the magnetic thin film 3. When the intensity of the bias magnetic field of the antiferromagnetic thin film 5 is represented by Hr and the coercive force of the magnetic thin film 2 is represented by Hc2, the inequality Hc2<Hr is satisfied. At least a part of the antiferromagnetic thin film 5 has a two-layered structure formed by laminating CoO in 10-40Å thickness on NiO or NiMn having an fct structure.



## LEGAL STATUS

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